

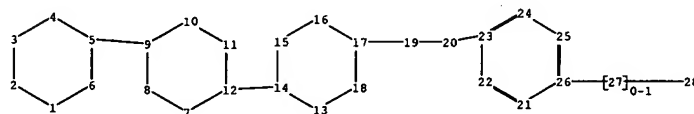
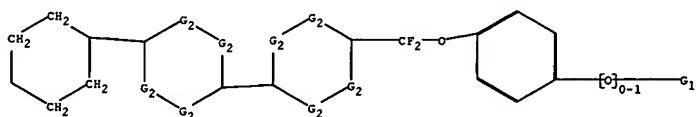
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DATE: Tuesday, October 11, 2005

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END OF SEARCH HISTORY



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chain nodes :
  19 20 27 28
ring nodes :
  1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 21 22 23
  24 25 26
chain bonds :
  5-9 12-14 17-19 19-20 20-23 26-27 27-28
ring bonds :
  1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12 13-14
  13-18 14-15 15-16 16-17 17-18 21-22 21-26 22-23 23-24 24-25 25-26
exact/norm bonds :
  1-2 1-6 2-3 3-4 4-5 5-6 5-9 7-8 7-12 8-9 9-10 10-11 11-12
  12-14 13-14 13-18 14-15 15-16 16-17 17-18 17-19 19-20 20-23 26-27
  27-28
normalized bonds :
  21-22 21-26 22-23 23-24 24-25 25-26

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G1:Cl,F,S,N,CF2,CF3

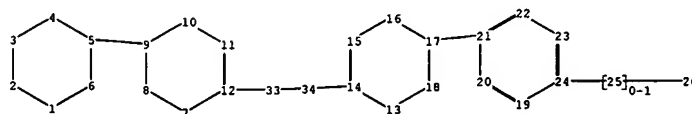
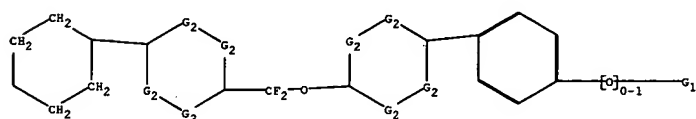
G2:C,O

Match level :

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10:Atom 11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom
18:Atom 19:CLASS 20:CLASS 21:Atom 22:Atom 23:Atom 24:Atom 25:Atom
26:Atom 27:CLASS 28:CLASS

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chain nodes :
  25  26  33  34
ring nodes :
  1  2  3  4  5  6  7  8  9  10  11  12  13  14  15  16  17  18  19  20  21
  22  23  24
chain bonds :
  5-9 12-33 14-34 17-21 24-25 25-26 33-34
ring bonds :
  1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12 13-14
  13-18 14-15 15-16 16-17 17-18 19-20 19-24 20-21 21-22 22-23 23-24
exact/norm bonds :
  1-2 1-6 2-3 3-4 4-5 5-6 5-9 7-8 7-12 8-9 9-10 10-11 11-12
  12-33 13-14 13-18 14-15 14-34 15-16 16-17 17-18 17-21 24-25 25-26
  33-34
normalized bonds :
  19-20 19-24 20-21 21-22 22-23 23-24

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G1:Cl,F,S,N,CF2,CF3

G2:C,O

Match level :

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1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom
10:Atom 11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom
18:Atom 19:Atom 20:Atom 21:Atom 22:Atom 23:Atom 24:Atom 25:CLASS
26:CLASS 33:CLASS 34:CLASS

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L11 ANSWER 1 OF 21 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 2005:587459 CAPLUS
 DN 143:106470
 TI Liquid crystal compositions, compounds with low refractive index
 anisotropy therefor, polymers and polymer compositions therefrom, films
 and articles therefrom, and displays therewith
 IN Kato, Takashi; Ito, Maiko
 PA Chisso Corp., Japan; Chisso Petrochemical Corporation
 SO Jpn. Kokai Tokkyo Koho, 72 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2005179557	A2	20050707	JP 2003-424376	20031222
PRAI	JP 2003-424376		20031222		

L11 ANSWER 2 OF 21 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 2005:182778 CAPLUS
 DN 142:287912
 TI Mesogenic compounds, medium for electro-optical displays and
 electro-optical display
 IN Kirsch, Peer; Montenegro, Elvira; Farrand, Louise Diane; Pauluth, Detlef;
 Heckmeier, Michael
 PA Merck Patent G.m.b.H., Germany
 SO PCT Int. Appl., 134 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2005019378	A1	20050303	WO 2004-EP8942	20040810
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PRAI EP 2003-18707 A 20030825

OS MARPAT 142:287912

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 3 OF 21 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 2005:158755 CAPLUS
 DN 142:249457
 TI Liquid crystalline medium for liquid crystal display
 IN Heckmeier, Michael; Schoen, Sabine; Kirsch, Peer
 PA Merck Patent G.m.b.H., Germany
 SO PCT Int. Appl., 93 pp.
 CODEN: PIXXD2
 DT Patent
 LA German
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2005017067	A1	20050224	WO 2004-EP8628	20040802

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
 CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
 GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
 LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,
 NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,
 TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
 RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM,
 AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,
 EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE,
 SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE,
 SN, TD, TG

DE 102004037386 A1 20050303 DE 2004-102004037386 20040802
 PRAI DE 2003-10335605 A 20030804
 OS MARPAT 142:249457
 RE.CNT 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 4 OF 21 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 2005:74172 CAPLUS
 DN 142:144370
 TI Liquid-crystal medium containing monofluoroterphenyl compounds for liquid
 crystal display
 IN Manabe, Atsutaka; Durmaz, Erdal; Poetsch, Eike; Reiffenrath, Volker;
 Heckmeier, Michael
 PA Merck Patent G.m.b.H., Germany
 SO PCT Int. Appl., 134 pp.
 CODEN: PIXXD2
 DT Patent
 LA German
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005007775	A1	20050127	WO 2004-EP6777	20040623
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				

DE 102004030315 A1 20050127 DE 2004-102004030315 20040623
 PRAI DE 2003-10331490 A 20030711
 OS MARPAT 142:144370
 RE.CNT 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 5 OF 21 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 2004:962862 CAPLUS
 DN 141:403631
 TI Liquid crystal compound and liquid crystal mixture showing improved
 physical properties for liquid crystal display
 IN Kirsch, Peer; Hahn, Alexander; Poetsch, Eike; Meyer, Volker; Heckmeier,
 Michael; Klasen-Memmer, Melanie; Luessem, Georg; Hock, Christian
 PA Merck Patent GmbH, Germany
 SO Ger. Offen., 100 pp.
 CODEN: GWXXBX
 DT Patent
 LA German
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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 PI DE 10318420 A1 20041111 DE 2003-10318420 20030424
 PRAI DE 2003-10318420 20030424
 OS MARPAT 141:403631

L11 ANSWER 6 OF 21 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 2004:732279 CAPLUS
 DN 141:233406
 TI Nematic liquid crystal mixture showing improved physical properties for liquid crystal display
 IN Heckmeier, Michael; Schuler, Brigitte; Saito, Izumi; Schoen, Sabine; Kirsch, Peer
 PA Merck Patent GmbH, Germany
 SO Eur. Pat. Appl., 117 pp.
 CODEN: EPXXDW
 DT Patent
 LA German
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1454975	A2	20040908	EP 2004-3994	20040223
	EP 1454975	A3	20050126		
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	US 2004173776	A1	20040909	US 2004-792794	20040305
	JP 2004285353	A2	20041014	JP 2004-61623	20040305
PRAI	DE 2003-10309513	A	20030305		
OS	MARPAT 141:233406				

L11 ANSWER 7 OF 21 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 2004:466725 CAPLUS
 DN 141:44938
 TI Liquid crystalline compound suitable for liquid crystal mixture of liquid crystal display
 IN Kirsch, Peer; Hahn, Alexander; Poetsch, Eike; Meyer, Volker; Heckmeier, Michael; Klasen-Memmer, Melanie; Luessem, Georg; Hock, Christian
 PA Merck Patent G.m.b.H., Germany
 SO Ger. Offen., 154 pp.
 CODEN: GWXXBX
 DT Patent
 LA German
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 10353658	A1	20040609	DE 2003-10353658	20031117
	WO 2004048501	A1	20040610	WO 2003-EP12813	20031117
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	EP 1565540	A1	20050824	EP 2003-811758	20031117
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PRAI	DE 2002-10255311	A1	20021127		
	WO 2003-EP12813	W	20031117		
OS	MARPAT 141:44938				

L11 ANSWER 8 OF 21 CAPLUS COPYRIGHT 2005 ACS on STN

AN 2004:389647 CAPLUS

DN 140:397435

TI Cyclohexane derivative useful in liquid crystal mixture suitable for liquid crystal display

IN Kirsch, Peer; Luessem, Georg; Heckmeier, Michael

PA Merck Patent G.m.b.H., Germany

SO Ger. Offen., 62 pp.

CODEN: GWXXBX

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 10348173	A1	20040513	DE 2003-10348173	20031016
PRAI	DE 2002-10251018	IA	20021102		
OS	MARPAT 140:397435				

L11 ANSWER 9 OF 21 CAPLUS COPYRIGHT 2005 ACS on STN

AN 2004:370705 CAPLUS

DN 140:383194

TI Nematic liquid crystal mixture showing improved physical properties for liquid crystal display

IN Kirsch, Peer; Heckmeier, Michael; Luessem, Georg; Best, Peter; Hock, Christian

PA Merck Patent GmbH, Germany

SO Eur. Pat. Appl., 88 pp.

CODEN: EPXXDW

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1416030	A1	20040506	EP 2003-23238	20031014
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
	DE 10348172	A1	20040513	DE 2003-10348172	20031016
PRAI	DE 2002-10250773	A	20021030		
OS	MARPAT 140:383194				

RE.CNT 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 10 OF 21 CAPLUS COPYRIGHT 2005 ACS on STN

AN 2004:291062 CAPLUS

DN 140:294947

TI Nematic liquid crystalline medium suitable for liquid crystal display

IN Heckmeier, Michael; Schoen, Sabine; Kirsch, Peer

PA Merck Patent G.m.b.H., Germany

SO Ger. Offen., 62 pp.

CODEN: GWXXBX

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 10344474	A1	20040408	DE 2003-10344474	20030925
	EP 1420057	A1	20040519	EP 2003-21623	20030925
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	JP 2004149775	A2	20040527	JP 2003-339559	20030930
	US 2004112275	A1	20040617	US 2003-673909	20030930
PRAI	DE 2002-10245849	IA	20020930		
OS	MARPAT 140:294947				

L11 ANSWER 11 OF 21 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 2003:929400 CAPLUS
 DN 139:401626
 TI Liquid crystal mixture for TFT active matrix liquid crystal display
 IN Heckmeier, Michael; Schuler, Brigitte; Saito, Izumi; Reiffenrath, Volker;
 Luessem, Georg; Hock, Christian
 PA Merck Patent G.m.b.H., Germany
 SO Eur. Pat. Appl., 49 pp.
 CODEN: EPXXDW
 DT Patent
 LA German
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1365001	A1	20031126	EP 2003-9677	20030430
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	DE 10223061	A1	20031211	DE 2002-10223061	20020524
	JP 2004067996	A2	20040304	JP 2003-146504	20030523
	US 2004016905	A1	20040129	US 2003-445032	20030527
	US 6827990	B2	20041207		
	US 2004245502	A1	20041209	US 2004-885729	20040708
	US 2004256600	A1	20041223	US 2004-885730	20040708
	US 6890607	B2	20050510		
	US 2004256604	A1	20041223	US 2004-885731	20040708
	US 2004262572	A1	20041230	US 2004-885672	20040708
PRAI	DE 2002-10223061	A	20020524		
	US 2003-445032	A3	20030527		
OS	MARPAT 139:401626				

RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 12 OF 21 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 2003:626445 CAPLUS
 DN 139:157466
 TI Liquid crystalline medium showing improved physical properties for liquid crystal display
 IN Heckmeier, Michael; Schoen, Sabine; Kirsch, Peer; Schuler, Brigitte;
 Saito, Izumi
 PA Merck Patent G.m.b.H., Germany
 SO Eur. Pat. Appl., 1 p.
 CODEN: EPXXDW
 DT Patent
 LA German
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1335014	A1	20030813	EP 2003-565	20030113
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
	DE 10204790	A1	20030814	DE 2002-10204790	20020206
	US 2003234384	A1	20031225	US 2003-359282	20030206
	JP 2004238489	A2	20040826	JP 2003-29101	20030206
	US 2005040365	A1	20050224	US 2004-936660	20040909
PRAI	DE 2002-10204790	A	20020206		
	US 2003-359282	B1	20030206		
OS	MARPAT 139:157466				

RE.CNT 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 13 OF 21 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 2001:319542 CAPLUS
 DN 134:346537
 TI Liquid crystal composition and liquid crystal display device

IN Miyairi, Takahiro; Kubo, Yasuhiro; Nakagawa, Etsuo
PA Chisso Corporation, Japan; Chisso Petrochemical Corporation
SO Eur. Pat. Appl., 42 pp.
CODEN: EPXXDW

DT Patent
LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1096001	A2	20010502	EP 2000-250340	20001018
	EP 1096001	A3	20011031		
	EP 1096001	B1	20040114		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	JP 2001123170	A2	20010508	JP 1999-303009	19991025
	US 6497929	B1	20021224	US 2000-695238	20001025
PRAI	JP 1999-303009	A	19991025		
OS	MARPAT 134:346537				

L11 ANSWER 14 OF 21 CAPLUS COPYRIGHT 2005 ACS on STN

AN 2000:755294 CAPLUS

DN 133:342567

TI Liquid crystal composition and liquid crystal display element

IN Takeshita, Fusayuki; Nakagawa, Etsuo; Kubo, Yasuhiro

PA Chisso Corporation, Japan

SO Eur. Pat. Appl., 35 pp.

CODEN: EPXXDW

DT Patent
LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1046694	A1	20001025	EP 2000-108014	20000419
	EP 1046694	B1	20030402		
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	JP 2001003053	A2	20010109	JP 2000-9396	20000118
	US 6315922	B1	20011113	US 2000-551643	20000418
PRAI	JP 1999-110818	A	19990419		
	JP 2000-9396	A	20000118		
OS	MARPAT 133:342567				

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 15 OF 21 CAPLUS COPYRIGHT 2005 ACS on STN

AN 2000:755293 CAPLUS

DN 133:342566

TI Liquid crystal composition and liquid crystal display element

IN Takeshita, Fusayuki; Nakagawa, Etsuo; Kubo, Yasuhiro

PA Chisso Corporation, Japan

SO Eur. Pat. Appl., 41 pp.

CODEN: EPXXDW

DT Patent
LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1046693	A1	20001025	EP 2000-108013	20000419
	EP 1046693	B1	20021120		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	JP 2001003051	A2	20010109	JP 1999-163709	19990610
	US 6325949	B1	20011204	US 2000-551641	20000418
PRAI	JP 1999-110817	A	19990419		

JP 1999-163709 A 19990610
OS MARPAT 133:342566
RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 16 OF 21 CAPLUS COPYRIGHT 2005 ACS on STN
AN 2000:196675 CAPLUS
DN 132:243739
TI Nematic liquid crystal component and liquid crystal display device
IN Tomi, Yoshitake; Takeshita, Fusayuki; Nakagawa, Etsuo
PA Chisso Corp., Japan
SO Jpn. Kokai Tokkyo Koho, 16 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2000087040	A2	20000328	JP 1998-256410	19980910
	DE 19943358	A1	20000427	DE 1999-19943358	19990910
	US 6335064	B1	20020101	US 2000-641916	20000821
PRAI	JP 1998-256410	A	19980910		
	US 1999-388445	B1	19990902		

OS MARPAT 132:243739

L11 ANSWER 17 OF 21 CAPLUS COPYRIGHT 2005 ACS on STN
AN 1998:614232 CAPLUS
DN 129:296227
TI Halo-substituted benzene derivative, and liquid-crystal composition and display device using it
IN Kobayashi, Katsuhiko; Matsui, Shuichi; Miyazawa, Kazutoshi; Takeuchi, Hiroyuki
PA Chisso Corp., Japan
SO Jpn. Kokai Tokkyo Koho, 117 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 10251186	A2	19980922	JP 1997-72708	19970310
PRAI	JP 1997-72708		19970310		

OS MARPAT 129:296227

L11 ANSWER 18 OF 21 CAPLUS COPYRIGHT 2005 ACS on STN
AN 1998:364997 CAPLUS
DN 129:47452
TI Liquid crystal composition for display devices
IN Andou, Tugumiti; Shibata, Koichi; Matsui, Shuichi; Miyazawa, Kazutoshi; Takeuchi, Hiroyuki; Hisatsune, Yasusuke; Takeshita, Fusayuki; Nakagawa, Etsuo; Kobayashi, Katsuhiko; Tomi, Yoshitaka
PA Chisso Corporation, Japan
SO Eur. Pat. Appl., 35 pp.
CODEN: EPXXDW
DT Patent
LA English
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 844295	A1	19980527	EP 1997-120366	19971120
	EP 844295	B1	20010613		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	JP 10204436	A2	19980804	JP 1997-297680	19971015

	JP 3531713	B2	20040531		
	US 5961881	A	19991005	US 1997-966417	19971107
	CN 1188134	A	19980722	CN 1997-108399	19971122
	US 6187223	B1	20010213	US 1999-335783	19990618
PRAI	JP 1996-327854	A	19961122		
	JP 1997-297680	A	19971015		
	JP 1997-297678	A	19971015		
	US 1997-966455	A3	19971107		

OS MARPAT 129:47452

RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 19 OF 21 CAPLUS COPYRIGHT 2005 ACS on STN

AN 1998:364954 CAPLUS

DN 129:60620

TI Polyhaloalkyl ether derivatives for liquid crystal compositions for display devices

IN Andou, Tugumiti; Shibata, Koichi; Matsui, Shuichi; Miyazawa, Kazutoshi; Takeuchi, Hiroyuki; Hisatsune, Yasusuke; Takeshita, Fusayuki; Nakgawa, Etsuo; Kobayashi, Katsuhiko; Tomi, Yoshitaka

PA Chisso Corporation, Japan

SO Eur. Pat. Appl., 137 pp.

CODEN: EPXXDW

DT Patent

LA English

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 844229	A1	19980527	EP 1997-120363	19971120
	EP 844229	B1	20020206		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	JP 10204016	A2	19980804	JP 1997-297678	19971015
	JP 3287288	B2	20020604		
	JP 2002179606	A2	20020626	JP 2001-327205	19971015
	US 6007740	A	19991228	US 1997-966455	19971107
	TW 464685	B	20011121	TW 1997-86117299	19971119
	EP 1029842	A2	20000823	EP 2000-109051	19971120
	EP 1029842	A3	20010221		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	AT 212963	E	20020215	AT 1997-120363	19971120
	CN 1188134	A	19980722	CN 1997-108399	19971122
	US 6187223	B1	20010213	US 1999-335783	19990618
PRAI	JP 1996-327854	A	19961122		
	JP 1997-297678	A	19971015		
	US 1997-966455	A3	19971107		
	EP 1997-120363	A3	19971120		

OS MARPAT 129:60620

RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 20 OF 21 CAPLUS COPYRIGHT 2005 ACS on STN

AN 1996:437810 CAPLUS

DN 125:100344

TI Difluoroxymethane derivative and liquid crystal composition

IN Matsui, Shuichi; Miyazawa, Kazutoshi; Ohnishi, Noriyuki; Haseba, Yasuhiro; Goto, Yasuyuki; Nakagawa, Etsuo; Sawada, Shinichi

PA Chisso Corp., Japan

SO PCT Int. Appl., 243 pp.

CODEN: PIXXD2

DT Patent

LA Japanese

FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9611897	A1	19960425	WO 1995-JP2099	19951013
	W: BR, CA, CN, FI, JP, KR, NO, SG, US				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	CA 2202349	AA	19960425	CA 1995-2202349	19951013
	CA 2202349	C	20030107		
	EP 786445	A1	19970730	EP 1995-934292	19951013
	EP 786445	B1	20020717		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
	CN 1158602	A	19970903	CN 1995-195209	19951013
	JP 2828507	B2	19981125	JP 1995-513097	19951013
	JP 2828508	B2	19981125	JP 1995-513098	19951013
	JP 2873096	B2	19990324	JP 1996-513099	19951013
	AT 220656	E	20020815	AT 1995-934292	19951013
	US 5858270	A	19990112	US 1997-776298	19970130
PRAI	JP 1994-274511	A	19941013		
	JP 1995-205531	A	19950811		
	WO 1995-JP2099	W	19951013		
OS	MARPAT 125:100344				

L11 ANSWER 21 OF 21 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 1996:434934 CAPLUS
 DN 125:100337
 TI Liquid crystal composition and liquid-crystal display
 IN Matsui, Shuichi; Miyazawa, Kazutoshi; Ohnishi, Noriyuki; Haseba, Yasuhiro;
 Goto, Yasuyuki; Nakagawa, Etsuo; Sawada, Shinichi
 PA Chisso Corp., Japan
 SO PCT Int. Appl., 55 pp.
 CODEN: PIXXD2
 DT Patent
 LA Japanese
 FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9611995	A1	19960425	WO 1995-JP2101	19951013
	W: JP, US				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	CA 2202349	AA	19960425	CA 1995-2202349	19951013
	CA 2202349	C	20030107		
	EP 786509	A1	19970730	EP 1995-934294	19951013
	EP 786509	B1	20010912		
	R: DE, FR, GB				
	CN 1158602	A	19970903	CN 1995-195209	19951013
	JP 2828507	B2	19981125	JP 1995-513097	19951013
	JP 2828508	B2	19981125	JP 1995-513098	19951013
	JP 2873096	B2	19990324	JP 1996-513099	19951013
	US 5792386	A	19980811	US 1997-776162	19970429
PRAI	JP 1994-274511	A	19941013		
	JP 1995-205531	A	19950811		
	WO 1995-JP2101	W	19951013		
OS	MARPAT 125:100337				